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The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.  
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

## C-A OPERATIONS PROCEDURES MANUAL

### 12.24 Setting TtB Radiation Zones

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#### Hand Processed Changes

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Approved: \_\_\_\_\_ ***Signature on File*** \_\_\_\_\_  
Collider-Accelerator Department Chairman Date

C. Carlson

## 12.24 Setting TtB Radiation Zones

### 1. Purpose

The purpose of this procedure is to define the sequence of steps necessary to sweep and secure the TtB beam transport tunnels in preparation for insertion of beams from the Tandem Van de Graaff accelerators.

### 2. Responsibilities

It is the responsibility of the person or persons executing this procedure to observe all safety rules.

### 3. Prerequisites

The person or persons executing this procedure shall have all formal training required of a TVDG Operator.

3.1 Ensure that the MP-7 HE Zone has been disabled.

### 4. Precautions

4.1 The tunnels are exclusion areas during periods of beam transport, and as such shall be searched and secured by the appropriate TVDG operations personnel.

4.2 The sweep procedure is similar to the one utilized in the TVDG Facility.

4.3 The tunnel complex is comprised of thirteen (13) contiguous zones, each having nominally three inspection stations associated with it.

4.4 Most zones have two or three entrance/exit points; egress from any zone can be successfully made by activating the station at the exit point.

4.5 The identification of areas within zones is posted on the cable trays.

4.6 There is a nominal time restriction of two minutes for the setting of any zone to prevent leaving a "hanging", or partially set zone. Activation of any internal inspection station resets the time delay to the two minute mark.

**5. Procedure**

5.1 Complete [C-A-OPM 12.24.a, “TtB Sweep Checklist”](#), when securing the TtB.

**6. Documentation**

6.1 Completed [C-A-OPM-ATT 12.24.a “TtB Sweep Checklist”](#) shall be filed in appropriate binder.

**7. References**

7.1 Converting Radsafe System to and from TtB Operation.

**8. Attachments**

8.1 Completed [C-A-OPM-ATT 12.24.a “TtB Sweep Checklist”](#) shall be filed in appropriate binder.